

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number
WO 2004/111335 A1

(51) International Patent Classification: D21G 1/00

(21) International Application Number:
PCT/FI2004/050097

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data:
20030913 18 June 2003 (18.06.2003) FI

(71) Applicant (for all designated States except US): METSO
PAPER, INC. [FI/FI]; Fabianinkatu 9 A, FI-00130
Helsinki (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KIRVESKARI, Erkki
[FI/FI]; Välihaika 90, FI-07190 Halkia (FI).

(74) Agent: TAMPEREEN PATENTTITOIMISTO OY;
Hermiankatu 12 B, FI-33720 Tampere (FI).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

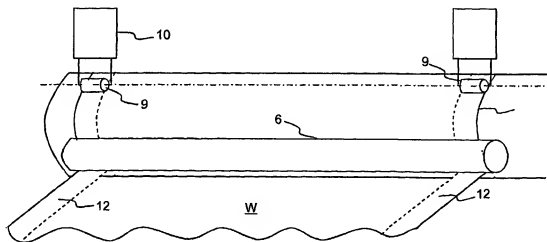
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR CALENDERING A PAPER OR PAPERBOARD WEB



(57) Abstract: A method and a device for calendaring a paper or paperboard web, in which the web (W) is led first into a calendaring step (1) and then into a reeling step (2). At least one edge area (12) of the web (W) is calendared separately in the reeling step (2).

WO 2004/111335 A1